



Name: _____
Mr. Tiénou-Gustafson & Mr. Bielmeier
Geometry, Period _____
Due Date: Tue, 5 May 2015

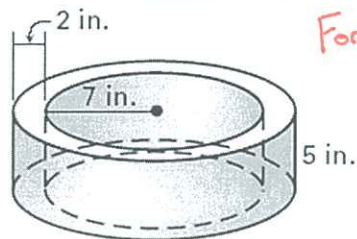
HW148 compound shapes

Geometry

CW / HW

Give all relevant formulas and show all work. You can assume that the center portions of the 3-D figures below (in grey) are removed from the shape. Failure to show all work will result in a LaSalle.

- 1) Find the volume of right cylinder. Round your answer to two decimal places.

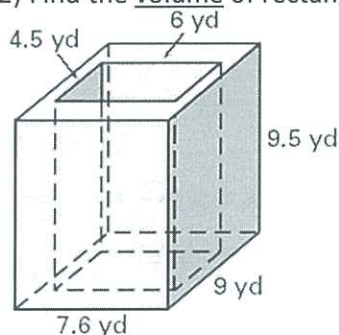


Formula for volume of cylinder:

$V_{\text{large cylinder}}$:

$V_{\text{small cylinder}}$:

- 2) Find the volume of rectangular prism. Round your answer to two decimal places.

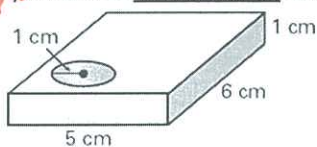


Formula for volume of rect prism:

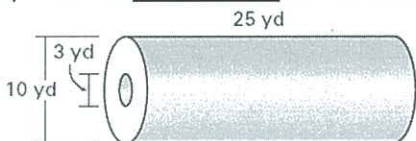
$V_{\text{large rect prism}}$:

$V_{\text{small rect prism}}$:

- 3) Find the surface area of the solid. Round your answer to two decimal places.



- 4) Find the surface area of the solid. Round your answer to two decimal places.

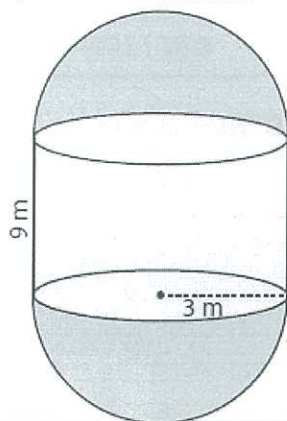


Formula for Surface Area of cylinder:

$SA_{\text{large cylinder}}$:

$SA_{\text{small cylinder}}$:

5) a. Find the volume of the composite shape below:



hemisphere
V =

cylinder
V =

hemisphere
V =

b. Find the surface area of the shape:

SA =

V =

SA =

10) a. swimming pool is 8 m long, 6 m wide and 1.5 m deep. How many liters of water will be needed to fill it?

1 cubic meter equals 1000 liters

b. The water resistant paint needed for the pool costs \$6 per square meter. How much will it cost to paint the interior surfaces of the pool?

Review Problems: Show work or explain your answer

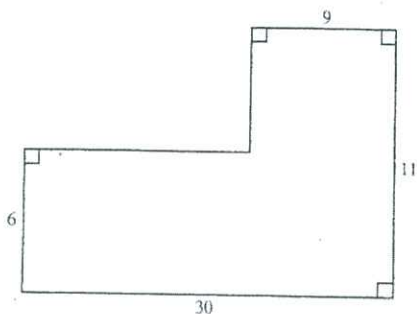
Today's newspaper reported that the price of a gallon of milk 10 years ago was 70% of today's price for a gallon of milk. Today's price for a gallon of milk is \$2.50. Which of the following is closest to the price of a gallon of milk 10 years ago?

- F. \$0.70
- G. \$0.75
- H. \$1.75
- J. \$1.80
- K. \$2.43

Given that $\sin A = \frac{2}{3}$, which expression would you use to find the measure of angle A?

- A. $\sin\left(\frac{2}{3}\right)$
- B. $\sin^{-1}\left(\frac{2}{3}\right)$
- C. $\sin\left(\frac{3}{2}\right)$
- D. $\frac{3}{2}$

What is the area, in square meters, of the figure below?



A sculptor creates a small plastic statue that weighs 17 lb. She plans to make another version of the same sculpture that is 5 times as large in each dimension and made of stone. If stone weighs 6 times as much as plastic, how much will the large statue weigh?

- A. 510 lb
- B. 1,530 lb
- C. 2,550 lb
- D. 12,750 lb

- F. 336
- G. 330
- H. 225
- J. 82
- K. 56